



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2019-02-11-22 Date: 24-09-2018

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Gandhinagara and Surrounding Areas in Ward No-01 of Yelahanka Sub Division.

Agency : Sri.Krishna Construction Prop.C.Hemaganesh No:13/1 Attur Layout, 6th Cross, Santhosh Nagara Yelahanka Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-19/WO/38/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-09-2018

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.02	165.54	2.864	7856	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.04	165.53	2.815	7859	145.1	18.5	18.5	23.1

Note:

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Authorized Signatory
Quality Manager





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-02-24-63 Date: 31-01-19
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.
 Agency : Sri Shivakumar B.V NO: 1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.
 Customer's Reference : EE(YNK.D)E-PMT-19/W O/102/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 28-01-19
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11).1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 29-01-19

Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	—
2	Fineness by Air permeability method (m ² /kg.Min)	348.6	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Page 1/1

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-02-24-63 Date: 26-02-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.
Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-01-19
Sample Type : Birla Super 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test : 29-01-19
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-02-24-63 Date: 31-01-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.
Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.
Customer's Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 28-01-19
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 28-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

Page 1/2



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-02-24-63

Date: 31-01-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	-
4	Bulk Density(Loose) (Kg/l)	1.41	-
5	Bulk Density(Compacted) (Kg/l)	1.47	-
6	Water Absorption(%)	0.23	-

Note:

The results pertain to the samples received and tested.

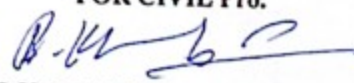
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Quality Manager

Page 2/2

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-02-24-63 Date: 30-01-19
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.
Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.
Customer Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 28-01-19
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 28-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	-



TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2019-02-24-63

Date: 30-01-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.52	—
5	Bulk Density(Compacted) (Kg/l)	1.56	—
6	Water Absorption(%)	0.21	—
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager



Page 2/2
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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-02-24-63 Date: 30-01-19

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.

Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagar, Yelahanka, Bangalore-560054.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-01-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 28-01-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2019-02-24-63

Date: 30-01-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.15	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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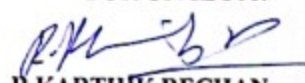
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Page 2/2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-24-63 Date: 08/02/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.

Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.

Customer's Reference : EE(YNK D)E-PMT-19/W.O/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C15

Date of test : 08/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.99 X 149.30 X 150.06	22693	8.825	416.3	18.3	18.5
2	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.97 X 149.30 X 151.44	22689	8.286	428.2	18.9	
3	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	149.51 X 150.05 X 149.23	22434	8.228	411.6	18.3	

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Quality Manager





TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-24-63 Date: 08/02/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.

Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CI 5

Date of test : 08/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.63 X	22755	8.825	430.3	18.9	18.6
					150.07 X					
					150.38					
2	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.49 X	22983	8.286	427.2	18.6	
					151.71 X					
					149.07					
3	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.22 X	22968	8.228	420.1	18.3	
					151.89 X					
					151.90					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-24-63 Date: 08/02/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.

Agency : Sri. Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.78 X	22907	8.825	434.0	18.9	18.7
					150.92 X					
					149.21					
2	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	150.21 X	22489	8.286	422.4	18.8	
					149.72 X					
					150.27					
3	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	149.58 X	22649	8.228	417.1	18.4	
					151.42 X					
					150.17					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-02-24-63 Date: 08/02/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Inspector Ramaiah Road and Surrounding Areas in Ward No.01 of Yelahanka Sub Division.

Agency : Sri.Shivakumar B.V NO:1428, 3rd Cross, Near Post Office, Nehrunagara, Yelahanka, Bangalore-560054.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/102/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.64 X 149.38 X 149.56	22653	8.825	425.4	18.8	18.7
2	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	149.87 X 151.53 X 150.85	22710	8.286	418.7	18.4	
3	Cement Concrete Pavement	M20	01/02/2019	08/02/2019	151.70 X 151.58 X 151.76	22995	8.228	432.5	18.8	

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